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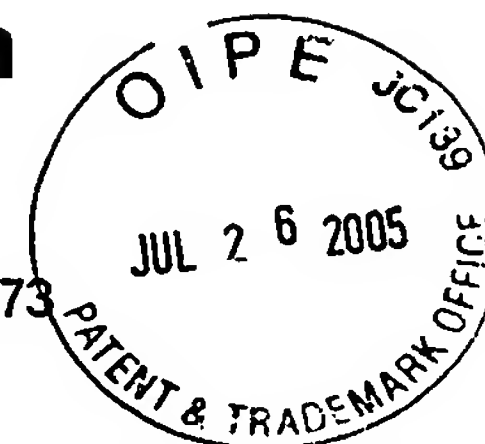
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From : Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 52 pages (including cover page)

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TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	10/710,386
	Filing Date	07/06/2004
	First Named Inventor	Mei-Tai Chou
	Art. Unit	2622
	Examiner Name	COLES, EDWARD L
	Attorney Docket Number	ACMP0117USA
Total Number of Pages in This Submission		50

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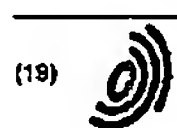
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(54) Multiple means for feature adjustment for a reproduction apparatus

(57) In reproduction apparatus (1) having a plurality of selectable features for carrying out a reproduction run, and an operator control panel (OCP) for providing operator interface for controlling the reproduction apparatus.

The operator control panel (OCP) includes a touch-screen user input (104) having multiple ways for selecting or adjusting a feature option.

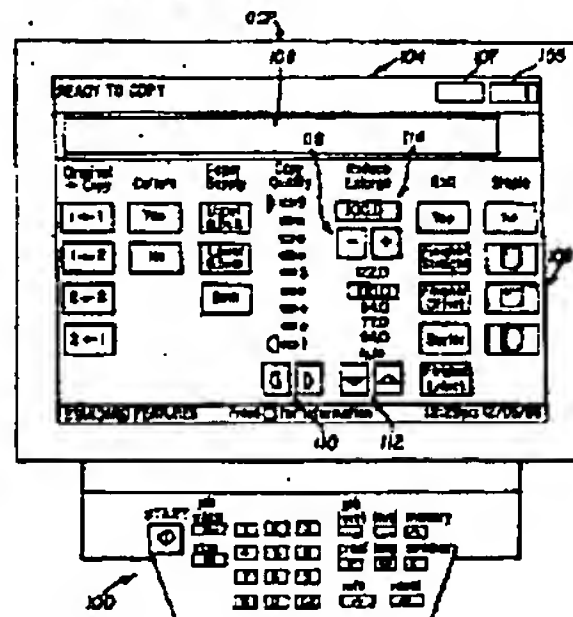


FIG. 3

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From : Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

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EP 0 702 273 A2

Description

The present invention relates, in general, to reproduction apparatus, and relates, more specifically, to electrographic reproduction apparatus having multiple means for feature selection or adjustment.

Electrographic reproduction apparatus are provided with an operator control panel for allowing an operator to program the apparatus for a reproduction run. In its simplest form, the control panel includes several dedicated (hard) buttons and switches for selecting features for a reproduction run, as well as visual indicators for informing the operator which features were selected. The operator control panel can also have a display for displaying messages. The control panel also includes keys and buttons for altering the display to indicate selected options. (See, for example, US-A-6,113,222.) The display may also include a touchscreen overlay having "soft buttons" for providing operator input to the reproduction apparatus. (See, for example, US-A-5,045,660; US-A-5,061,958; US-A-6,105,220; US-A-5,049,931; and US-A-5,010,551.)

A problem arises when all of the selections or adjustments for a particular feature cannot be displayed as touch areas within the optimal area range. In such a case, there is not enough room on the screen to display all selections (or adjustments) as touch buttons. Yet there is a need to maintain a consistent interface with the reproduction apparatus where the user selects a feature by touching that feature's soft button. Although the latter patents disclosing a touch screen user interface include both soft button input and feature scrolling with select button input, there is no disclosure of combining the two types of user interface for all aspects selection of the same feature.

According to the present invention, there is provided a solution to the problems of the prior art by providing multiple means for selecting a feature in a touch screen user input to a reproduction apparatus.

According to a feature of the present invention, there is provided in a reproduction apparatus having a plurality of selectable features for carrying out a reproduction run, an operator control panel for providing operator interface for controlling said reproduction apparatus comprising:

a display for displaying at least one selectable feature for a reproduction run with plural displayed options for said at least one selectable feature;

a touchscreen overlaying said at least one selectable feature and having operator actuable touch areas overlaying said plural displayed options for providing operator input to said reproduction apparatus to select one of said feature options; and

a scroll touch button on said touchscreen for scrolling a visual indicator to highlight one of the feature options for said at least one selectable feature;

wherein a feature option of said at least one selectable feature can be selected either by touching said touch area associated therewith or by actuating said scroll button to select said feature option.

According to another feature of the present invention there is provided in a reproduction apparatus having a plurality of selectable features for carrying out a reproduction run, an operator control panel for providing operator interface for controlling said reproduction apparatus comprising:

a display for displaying at least two selectable features for a reproduction run with plural displayed options for each of said at least two selectable features;

a touchscreen overlaying at least said two selectable features and having operator actuable touch areas overlaying said plural displayed options for each said at least two selectable features for providing operator input to said reproduction apparatus to select one or more feature options, wherein said touch areas are substantially larger for one of said selectable features than for the other of said selectable features; and

a scroll button on said touchscreen for scrolling an indicator to identify one of the feature options for said other of said selectable features;

wherein a feature option of said one selectable feature is selected only by touching said touch area associated therewith; and

wherein a feature option of said other selectable feature can be selected either by touching said touch area associated therewith or by actuating said scroll button to select said feature option.

Figure 1 is a front perspective view of an electrographic reproduction apparatus for incorporating the present invention.

Figure 2 is a schematic diagram of the electrographic reproduction apparatus of Figure 1.

Figure 3 is a diagrammatic view of an operator control panel, including a display with a touchscreen.

Figures 4-7 are respective screens useful in explaining the present invention.

Because electrographic reproduction apparatus 1 are well-known, the present description will be directed, in particular, to elements forming part of or cooperating more directly with the present invention. Apparatus not specifically shown or described herein are selectable from those known in the prior art. Particular reference is made to US-A-4,740,818 and US-A-5,113,222, the contents of which are incorporated herein by reference.

With reference now to Figure 1, there is shown an electrographic reproduction apparatus 1 having a reproducing document feeder 20 that includes a tray portion for accepting a multi-sheet document original for reproduction. The apparatus 1 includes an operator control panel (OCP) which, as will be described, includes buttons and prompting displays for facilitating a job setup, that is, the input of an instruction set to the apparatus logic and control unit (LCU) to enable it to control a series of operations resulting in a desired copy output representing a reproduction of the document original(s). Copies may be produced on receiver sheets stored in either or both drawers holding trays 23a and 23b. The copy output from the apparatus is stored either in an exit tray (ET) or

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finisher/sorter (F/S) having a series of sorter bins, as is well known.

Referring now to Figure 2, the electrographic reproduction apparatus of Figure 1 incorporating the present invention will be described in greater detail. As shown, reproduction apparatus 1 includes a photoconductive web 5 that is trained about six transport rollers 10, 11, 12, 13, 14 and 15, thereby forming an endless or continuous web. Roller 10 is coupled to a drive motor M in a conventional manner. Motor M is connected to a source of potential V when a switch SW is closed by a logic and control unit (LCU) 31. When the switch SW is closed, the roller 10 is driven by the motor M and moves the web 5 in clockwise direction as indicated by arrow A. This movement causes successive image areas of web 5 to sequentially pass a series of work stations of the apparatus 1. These workstations include: a charging station 17, 17a at which the photoconductive surface 9 of the web 5 is sensitized by applying to such surface a uniform electrostatic charge of a predetermined voltage; an exposure station 18 at which a light image of a document sheet 8, supported on transparent platen 2, is projected by mirrors 6, 6 and lens 7 onto the photoconductive surface 9 of the web 5 to produce a latent electrostatic image of the document sheet. Also included are a magnetic brush development station 19 at which the latent image is developed with developer which may consist of iron carrier particles and electroscopic toner particles with an

able "soft" buttons and areas for providing operator input to the reproduction apparatus. Touchscreens are well known and include resistive, acoustic, and infrared type input technologies.

The operator selectable set of hard buttons on the left include, START, JOB INTERRUPT, and STOP buttons. In the middle are numerical buttons 0-9 to set the number of copies or sets to be copied. A * and CE (clear entry) buttons are also included. On the right are the following hard buttons: JOB LEVEL, PAGE LEVEL, MEMORY, PROOF, LANGUAGE, SUMMARY, INFORMATION and RESET. The INFORMATION (I) button accesses an information system (stored in memory in LCU 31) which provides detailed information about reproduction apparatus 1 including features selectable by the operator and messages which are displayed on touchscreen display 104.

As shown in Figure 3, the screen illustrated on the touchscreen display is referred to as the "standard features" screen as it displays various features that a casual user of the apparatus 1 would want when first approaching the apparatus for an average reproduction run. The screen includes a message display area 106, a copies or sets requested display area 105, a copies or sets completed display area 107, and a "soft" button area 108. The "soft" button area includes selectable features with plural displayed options for each feature. The features shown are original only, online, nanosun, www, net.

PAGE 1/1 * RCVD AT 7/20/2005 7:12:58 AM [Eastern Daylight Time] * SVS:USPTO-EPXRP-424 * DMS:2731340 * CSID:8064986673 * DURATION (min-ss):02-04

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Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

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TRANSMITTAL FORM	
Application Number	10710,388
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First Named Inventor	Mei-Tai Chou
Art Unit	2622
Examiner Name	COLES, EDWARD L
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T-591 P09/52 U-542

1

EP 0 702 273 A2

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Description

The present invention relates, in general, to reproduction apparatus, and relates, more specifically, to electrographic reproduction apparatus having multiple means for feature selection or adjustment.

Electrographic reproduction apparatus are provided with an operator control panel for allowing an operator to program the apparatus for a reproduction run. In its simplest form, the control panel includes several dedicated (hard) buttons and switches for selecting features for a reproduction run, as well as visual indicators for informing the operator which features were selected. The operator control panel can also have a display for displaying messages. The control panel also includes keys and buttons for altering the display to indicate selected options. (See, for example, US-A-5,113,222.) The display may also include a touchscreen overlay having "soft buttons" for providing operator input to the reproduction apparatus. (See, for example, US-A-5,045,860; US-A-5,061,958; US-A-5,103,220; US-A-5,049,831; and US-A-5,010,351.)

A problem arises when all of the selections or adjustments for a particular feature cannot be displayed as touch areas within the optimal area range. In such a case, there is not enough room on the screen to display all selections (or adjustments) as touch buttons. Yet there is a need to maintain a consistent interface with the reproduction apparatus where the user selects a feature by touching that feature's soft button. Although the latter patents disclosing a touch screen user interface include both soft button input and feature scrolling with select button input, there is no disclosure of combining the two types of user interface for alternate selection of the same feature.

According to the present invention, there is provided a solution to the problems of the prior art by providing multiple means for selecting a feature in a touch screen user input to a reproduction apparatus.

According to a feature of the present invention, there is provided in a reproduction apparatus having a plurality of selectable features for carrying out a reproduction run, an operator control panel for providing operator interface for controlling said reproduction apparatus comprising:

a display for displaying at least one selectable feature for a reproduction run with plural displayed options for said at least one selectable feature;

a touchscreen overlaying said at least one selectable feature and having operator actuable touch areas overlaying said plural displayed options for providing operator input to said reproduction apparatus to select one of said feature options; and

a scroll touch button on said touchscreen for scrolling a visual indicator to highlight one of the feature options for said at least one selectable feature;

wherein a feature option of said at least one selectable feature can be selected either by touching said touch area associated therewith or by actuating said scroll button to select said feature option.

According to another feature of the present invention there is provided in a reproduction apparatus having a plurality of selectable features for carrying out a reproduction run, an operator control panel for providing operator interface for controlling said reproduction apparatus comprising:

a display for displaying at least two selectable features for a reproduction run with plural displayed options for each of said at least two selectable features;

a touchscreen overlaying at least said two selectable features and having operator actuable touch areas overlaying said plural displayed options for each said at least two selectable features for providing operator input to said reproduction apparatus to select one or more feature options, wherein said touch areas are substantially larger for one of said selectable features than for the other of said selectable features; and

a scroll button on said touchscreen for scrolling an indicator to identify one of the feature options for said other of said selectable features;

wherein a feature option of said one selectable feature is selected only by touching said touch area associated therewith; and

wherein a feature option of said other selectable feature can be selected either by touching said touch area associated therewith or by actuating said scroll button to select said feature option.

Figure 1 is a front perspective view of an electrographic reproduction apparatus for incorporating the present invention.

Figure 2 is a schematic diagram of the electrographic reproduction apparatus of Figure 1.

Figure 3 is a diagrammatic view of an operator control panel, including a display with a touchscreen.

Figures 4-7 are respective screens useful in explaining the present invention.

Because electrographic reproduction apparatus 1 are well-known, the present description will be directed, in particular, to elements forming part of or cooperating more directly with the present invention. Apparatus not specifically shown or described herein are selectable from those known in the prior art. Particular reference is made to US-A-4,740,818 and US-A-5,113,222, the contents of which are incorporated herein by reference.

With reference now to Figure 1, there is shown an electrographic reproduction apparatus 1 having a recirculating document feeder 50 that includes a tray portion for accepting a multi-sheet document original for reproduction. The apparatus 1 includes an operator control panel (OCP) which, as will be described, includes buttons and prompting displays for facilitating a job setup, that is, the input of an instruction set to the apparatus logic and control unit (LCU) to enable it to control a series of operations resulting in a desired copy output representing a reproduction of the document original. Copies may be produced on receiver sheets stored in either or both drawers holding trays 23a and 23b. The copy output from the apparatus is stored either in an exit tray (ET) or

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Fax Information

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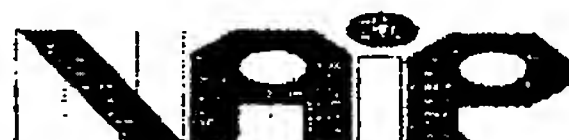
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22-07-'05 10:57 從 WINSTON HSU, NO. 41526 8064986673 T-592 P01/52 U-543



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Art Unit: 2622 Fax: (703) 872-9306

From : Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 52 pages (including cover page)

Winston Hsu 07/21/2005

RESUBMIT

Information Disclosure Statement (IDS)

Dear Sir,

The applicant submitted this Information Disclosure Statement on 07/20/2005 in US eastern time 03:52-06:54 AM and 07/21/2005 in US eastern time 22:12 PM by fax number 571-273-8300. However, the document was incomplete, the applicant hereby submits the Information Disclosure Statement again by fax number 703-872-9306. Please ignore the previous submission, and take the current submission as substitute.

ACMP0117USA0_D1_1

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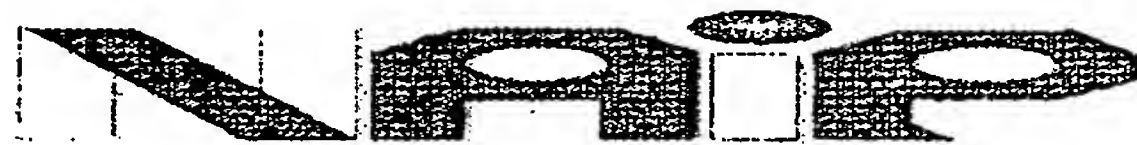
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記憶傳送報表

時間 : 22-07-'05 11:28
電話號碼1 : 8064986673
名稱 : WINSTON HSU, NO. 41526

檔案號碼 : 543
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Winston Hsu 07/21/2005

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時間 : 20-07-'05 16:06
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檔案號碼 : 486
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From : Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

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Winston Hsu 2005/07/20

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記憶傳送報表

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From : Winston Hsu, Registration No. 41,526

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Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 52 pages (including cover page)

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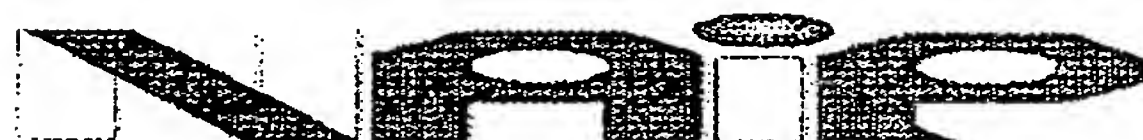
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From : Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

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Total Pages: 52 pages (including cover page)

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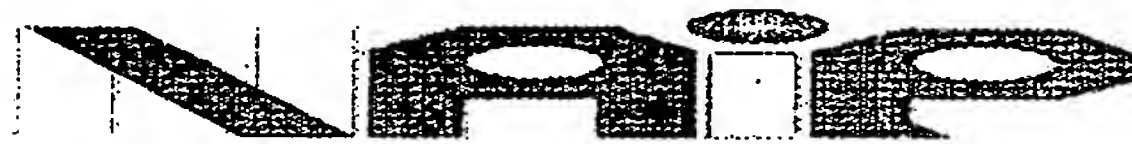
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From : Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 52 pages (including cover page)

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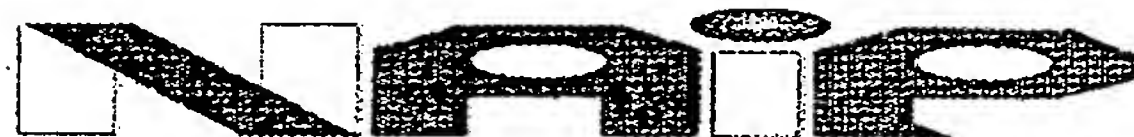
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啓始時間 : 22.07 10:13
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From : Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 52 pages (including cover page)

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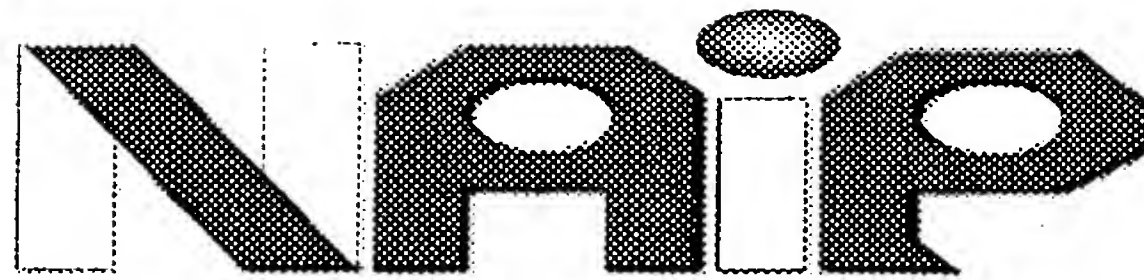
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Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

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Application No: 10/710,386

(1) Transmittal Form	1 PAGE
(2) Fee Transmittal	1 PAGE
(3) Information Disclosure Statement	48 PAGES

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Application Number

10/710,386

Filing Date

07/06/2004

First Named Inventor

Mei-Tai Chou

Art Unit

2622

Examiner Name

COLES, EDWARD L

Attorney Docket Number

ACMP0117USA

ENCLOSURES

(Check all that apply)



Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)

Reply to Missing Parts/
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Drawing(s)



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Petition to Convert to a
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Proprietary Information



Status Letter

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Firm Name

North America Intellectual Property Corporation

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Winston Hsu

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Winston Hsu

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For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 0.00

Complete if Known

Application Number	10/710,386
Filing Date	07/06/2004
First Named Inventor	Mei-Tai Chou
Examiner Name	COLES, EDWARD L
Art Unit	2622
Attorney Docket No.	ACMP0117USA

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Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
_____ - 20 or HP = _____ x _____ = _____						
HP = highest number of total claims paid for, if greater than 20						
Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)			
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3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
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4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other: submission of Information Disclosure Statement

Fees Paid (\$)

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SUBMITTED BY

Signature	<u>Winston Hsu</u>	Registration No. (Attorney/Agent)	41,526	Telephone	302-729-1562
Name (Print/Type)	Winston Hsu	Date	07/21/2005		

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Mei-Tai Chou et al.

Appl. No.: 10/710,386 Filing Date: 07/06/2004

Examiner: COLES, EDWARD L Art Unit: 2622

Docket No.: ACMP0117USA

Title: IMAGE-PROCESSING APPARATUS HAVING A LOCK BUTTON

To: Commissioner for Patents
P.O. BOX 1450
Alexandria, VA 22313-1450

Subject: Information disclosure statement under 37
CFR §1.56

Dear Sir,

This is an Information Disclosure Statement in accordance with the duty to disclose information material to patentability under 37 CFR §1.56. The applicant wishes to make of record the document(s) listed on the accompanying form PTO/SB/08.

Since this IDS is filed before the mailing date of the first Office action, consideration of the information disclosure statement is hereby requested according to 37 CFR §1.97(b).

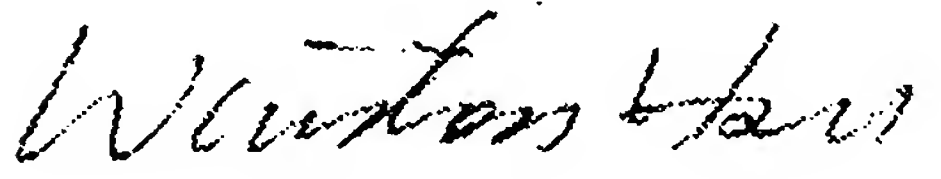
That each item of information contained in the information disclosure statement was first cited in an Office communication mailed on June 15, 2005 for the counterpart German patent application number 102004033857.4, which are

no more than three months prior to the filing of the information disclosure statement.

According to the requirement set forth in 37 CFR §1.98, the applicant is submitting a copy of the cited Japanese patent JP 63-121867 and its English language abstract to fulfill the concise explanation requirement.

It is respectfully requested that the examiner can consider the document(s) listed on the accompanying form PTO/SB/08 and that it be made of record in the application. The applicants sincerely hope that the examiner initials the cited reference(s) on the form and that a copy of the initialed form be sent to the applicants with the next communication from the examiner.

Respectfully submitted,



Date: July 21, 2005

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Note: Please leave a message in my voice mail if you need to talk to me. The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan.